ABSTRACT OF THE DISCLOSURE

A method is disclosed of managing a voice mode conference call between users of terminals which are organized so that they can communicate with each other in packet mode by means of the Internet protocol or an equivalent protocol in the context of a communication system and in particular via an arrangement which enables them to be connected in a conference call and then to receive a signal from each of the terminals participating in the conference call and to broadcast the signal from a temporarily chosen terminal to the other terminals. Regular and transparent detection of voice activity in the compressed signals from the conference call terminals determines the received signal whose energy level is the highest of the energy levels considered at a given time, as defined by voice coding parameters for each signal included in the packets by means of which they are transmitted.